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Checking Mountain Soil Moisture Under the Snow, an important factor in snowmelt runoff.

Federal-State Cooperative Snow Surveys and Water Supply Forecasts for OREGON

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
OREGON AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Oregon State Engineer, U. S. Forest Service, National Park Service and other Federal, State and local organizations.

—— AS OF ——
MAR. 1, 1956

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS:

Snow surveys in the West are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its co-operators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Head, Water Supply Forecasting Section
Soil Conservation Service
209 S. W. 5th Avenue
Portland 4, Oregon

BASIN REPORTS:

Colorado, Rio Grande, and Platte-Arkansas River Basins	Issued monthly February through May by SCS and Colorado Experiment Station, Fort Collins, Colorado.*
Columbia River Basin	Issued monthly January through May by Soil Conservation Service, Boise, Idaho.*
Upper Missouri River Basin	Issued monthly February through May by SCS and Montana Agricultural Experiment Station, Bozeman, Montana.*
West-Wide Water Supply Outlook	Issued April 1 by Soil Conservation Service and Cooperators, Portland, Oregon.

STATE REPORTS:

Arizona	Issued semi-monthly January 15 through April 1 by SCS and Salt River Valley Water Users Association, Phoenix, Arizona.*
Nevada	Issued monthly February through April by SCS and Nevada State Engineer, Reno, Nevada.*
Oregon	Issued monthly January through May by SCS, Portland, Oregon, and Oregon Agricultural Experiment Station.*
Utah	Issued monthly January through May by SCS, Salt Lake City, Utah, and State Engineer of Utah and Utah Agricultural Experiment Station.*
Washington	Issued monthly February through May by SCS, Spokane, Washington, and State Department of Conservation and Development.*
Wyoming	Issued monthly February through May by SCS, Casper, Wyoming, and State Engineer of Wyoming.*

*Special reports are issued as needed.

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Buildings, Victoria, B.C.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacramento, California.

The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States" may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS

FOR

OREGON

Issued

March 8, 1956

Report Prepared

by

W. T. Frost, Snow Survey Supervisor
and
Manes Barton, Assistant Water Forecaster

Soil Conservation Service
and
Oregon Agricultural Experiment Station
209 S. W. 5th Avenue
Portland 4, Oregon

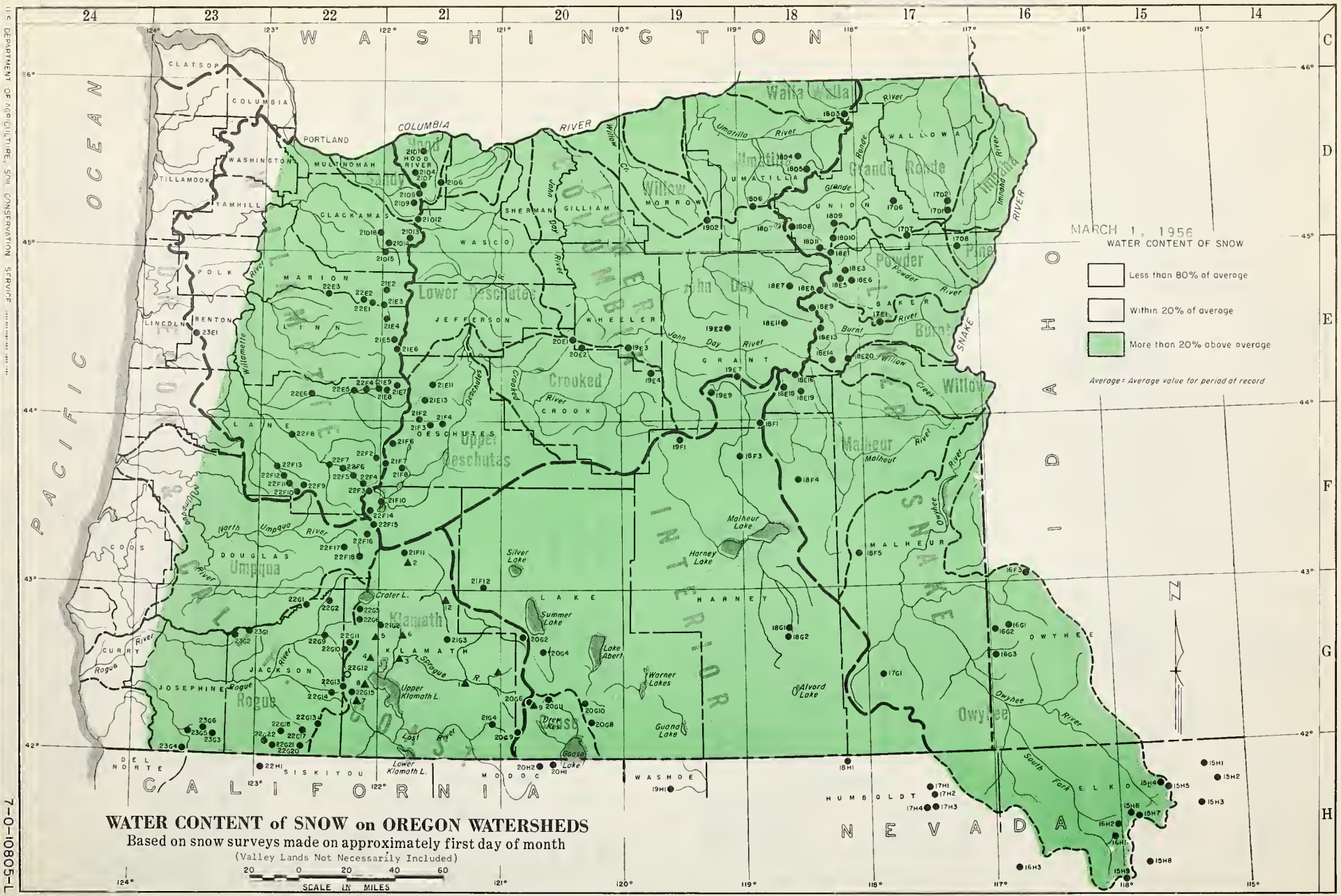
Issued by:

Harold E. Tower
State Conservationist
Soil Conservation Service

F. Earl Price
Director
Oregon Agricultural Experiment Station

INDEX to OREGON SNOW COURSES

Number	Name	Location Sec.	Twp.	Rge.	Elev.
UPPER COLUMBIA DRAINAGE (Lower Snoke in Oregon)					
OWYHEE RIVER BASIN					
18F5	Barren Valley	26	27S	38E	4200
15H4	Big Bend (Nev)	30	45N	56E	6700
16G2	Cliffe (Ida)	18	9S	5W	5200
15H7	Fry Canyon (Nev)	31	43N	54E	6700
15H5	Gold Creek (Nev)	31	45N	56E	6600
17G1	Nighway Camp	36	36S	41E	4300
16H1	Jack Creek, Lower (Nev)	18	42N	53E	6800
16H2	Jack Creek, Upper (Nev)	9	42N	53E	7250
16G3	Lowry Ranch (Ida)	19	10S	5W	4800
15H6	Rodeo Flet (Nev)	36	43N	53E	6800
16F3	Silver City (Ida)	6	5S	3W	6400
16G1	South Mountein No. 2 (Ida)	35	7S	5W	6340
15N9	Taylor Canyon (Nev)	35	39N	53E	6200
(The following courses are adjacent to but not on the Owyhee Drainage and partially reflect snow conditions on this watershed.)					
15H1	Bear Creek (Nev)	31	46N	58E	7800
17H2	Buckskin, Lower (Nev)	25	45N	39E	6700
17H1	Buckskin, Upper (Nev)	11	45N	39E	7200
15H2	Fox Creek (Nev)	33	46N	58E	6800
17H4	Granite Peak (Nev)	22	44N	39E	7800
17H3	Martin Creek (Nev)	18	44N	40E	6700
16H3	Midas (Nev)	18	39N	46E	7200
15N8	Tremewan Ranch (Nev)	9	39N	55E	5700
15N3	76 Creek (Nev)	6	44N	58E	7100
MALHEUR RIVER BASIN					
18E16	Blue Mountain Spring	21	15S	35E	5900
18E19	Crane Prairie	24	16S	34E	5375
18E20	Eldorado Pase	20	14S	38E	4600
18E18	Lake Creek	10	16S	33½E	5120
18F1	Rock Spring	23	18S	32E	5100
18F4	Stinking Water	33	21S	34E	4800
BURNT RIVER BASIN					
18E14	Barney Creek	16	14S	36E	5950
18E13	Blue Mountain Summit	6	12S	36E	5098
17E1	Dooley Mountain	32	11S	40E	5430
18E8	Gold Center	21	9S	36E	5340
18E9	Tipton	34	10S	35½E	5100
POWDER RIVER BASIN					
18E1	Anthony Lake	18	7S	37E	7125
1809	Beaver Reservoir	8	5S	37E	5340
18E5	Bourne	33	8S	37E	5800
17E1	Dooley Mountain	32	11S	40E	5430
18E3	Eilertson Meadows	18	8S	38E	5400
18E8	Gold Center	21	9S	36E	5340
18E6	Goodrich Lake	4	9S	38E	6775
18D10	Summit Springs	9	6S	37E	6000
1707	Taylor Green	3	6S	42E	5740
PINE CREEK BASIN					
17D8	Schneider Meadows	35	6S	45E	5400
GRANDE RONDE RIVER BASIN					
1701	Aneroid Lake No. 1	16	4S	45E	7480
17D2	Aneroid Lake No. 2	16	4S	45E	7000
18E1	Anthony Lake	18	7S	37E	7125
1809	Beaver Reservoir	8	5S	37E	5340
18011	Camp Carson	33	6S	36E	5970
1808	County Line	28	4S	34E	4800
18D5	Meacham	24 & 25	1S	35E	4300
17D6	Moss Spring	28	3S	41E	5850
18010	Summit Springs	9	6S	37E	6000
1707	Taylor Green	3	6S	42E	5740
1803	Tollgate	32	4N	38E	5070
LOWER COLUMBIA DRAINAGE					
WALLA WALLA RIVER BASIN					
18D3	Tollgate	32	4N	38E	5070
UMATILLA RIVER BASIN					
1902	Arbuckle Mountain	33	4S	29E	5400
1804	Emigrant Springs	29	1N	35E	3925
UMATILLA RIVER BASIN (Cont.)					
18D6	Lucky Strike	28	3S	32E	5050
1805	Meecham	24 & 25	1S	35E	4300
1803	Tollgete	32	4N	38E	5070
WILLOW CREEK BASIN					
1902	Arbuckle Mountain	33	4S	29E	5400
JOHN DAY RIVER BASIN					
18E1	Anthony Lake	18	7S	37E	7125
1902	Arbuckle Mountain	33	4S	29E	5400
19E2	Beech Creek Summit	4	12S	30E	4800
18E16	Blue Mountain Spring	21	15S	35E	5900
18E13	Blue Mountain Summit	6	12S	36E	5098
19E3	Oerr	14	13S	23E	5670
18E11	Dixie Springe	28	11S	34E	6650
18E8	Gold Center	21	9S	36E	5340
19E9	Izee Summit	28	16S	29E	5293
18D6	Lucky Strike	28	3S	32E	5050
20E1	Marks Creek	25	12S	19E	4540
20E2	Ochoco Meadows	21	13S	20E	5200
18E7	Olive Lake	14	9S	33½E	6000
1807	Schoolmarm	28	4S	34E	4775
19F1	Snow Mountain	1	19S	26E	6300
19E7	Starr Ridge	20	15S	31E	5150
18E9	Tipton	34	10S	35½E	5100
CROOKED RIVER BASIN					
19E3	Oerr	14	13S	23E	5670
20E1	Marks Creek	25	12S	19E	4540
20E2	Ochoco Meadows	21	13S	20E	5200
19F1	Snow Mountain	1	19S	26E	6300
19E4	Tamarack	8	15S	25E	4800
UPPER DESCHUTES RIVER BASIN					
21E11	Black Pine Spring	14	16S	9E	4600
21F8	Caldwell Ranch	30	21S	8E	4400
22F3	Cascade Summit	7	23S	6E	4880
21F7	Charlton Lake	23	21S	6E	5750
21F9	Crescent Lake	11	24S	6E	4760
21F4	Hungry Flat	30	18S	11E	4400
21F6	Irish-Taylor	25	20S	6E	5500
21F10	New Crescent Lake	11	24S	6E	4800
21F2	New Dutchman Flat	21	18S	9E	4400
21F3	Tangent	28	18S	10E	5400
21E13	Three Creek Meedows	3	17S	9E	5600
22F14	Willamette Pass	21	24S	5½E	5600
22F15	Windigo Pass	20	25S	6E	5800
LOWER DESCHUTES RIVER BASIN					
21D12	Clear Lake	29	4S	9E	3500
21E6	Nogg Pass	24	13S	7½E	4755
MILE CREEKS - MOSIER CREEK BASIN					
21D0	Brooks Meadows	2	2S	10E	4300
NOOO RIVER BASIN					
2106	Brooks Meadows	2	2S	10E	4300
21D1	Greenpoint Reservoir	28	2N	9E	3400
2104	Red Hill	21	1S	9E	4400
21D7	Tilly Jane-Mt. Nood	15	2S	9E	6000
SANDY RIVER BASIN					
21D8	Phlox Point-Mt. Hood	6	3S	9E	5600
2109	Still Creek	25	3S	8½E	3700
WILLAMETTE VALLEY STREAMS					
CLACKAMAS RIVER BASIN					
21D15	Big Bottom	25	6S	7E	2118
21D13	Clackamas Lake	35	5S	8½E	3400
21D16	Lake Narriet	4	6S	7E	2045
21D14	Peavine Ridge	14 & 15	6S	7E	3500
SANTIAM RIVER BASIN					
21E2	Breitenbush	21	9S	7E	2325
SANTIAM RIVER BASIN (Cont'd.)					
22E1	Detroit (town)	1	10S	5E	1500±
22E2	Detroit Dam	7	10S	5E	1580
21E6	Nogg Pase	24	13S	7½E	4755
21E4	Marion Forks	28	11S	7E	2730
22E3	Mill City	29	9S	3E	826
21E5	Santiam Junction	14	3S	7E	3990
21E3	Whitewater Bridge	28	10S	7E	2175
McKENZIE RIVER BASIN					
21E6	Dead Horse Grade	13	16S	7E	3800
22E4	Lost Creek Ranch	24	16S	6E	1746
21E7	McKenzie	35	15S	7½E	4800
22E5	McKenzie Bridge	13	16S	5E	1372
22E6	Vida	28	16S	2E	800
21E9	White Branch Slide	15	16S	7E	2800
MIDDLE FORK WILLAMETTE RIVER BASIN					
22F3	Cascade Summit	7	23S	6E	4880
22F6	McCredie Springs	36	21S	4E	2120
22F8	Meridien Dam	13	19S	1W	750
22F7	Oakridge	16	21S	3E	1310
22F5	Railroad Overpase	27	22S	5E	2750
22F4	Salt Creek Falls	33	22S	6E	4000
22F2	Waldo Lake	15	21S	6E	5500
22F14	Willamette Pass	21	24S	5½E	5600
OOAST FORK WILLAMETTE RIVER BASIN					
22F9	Champion	12	23S	1E	4500
22F10	Golden Curry Creek	1	23S	1E	3136
22F13	Layng Creek R. S.	31	21S	1E	1200
22F12	Lund Park	22	22S	1E	1740
22F11	Weever Creek	35	22S	1E	2440
MARY'S RIVER BASIN					
23E1	Mary's Peak	21	12S	7W	3620
OREGON & CALIFORNIA COAST DRAINAGE					
UMPQUA RIVER BASIN					
22F9	Champion	12	23S	1E	4500
22F18	Diamond Lake	29	27S	6E	5315
23G1	Goolaway Gap	32	32S	3W	3050
23G2	Goolaway Mountain	30	32S	3W	3780
22F16	North Umpqua nr Lake Creek	19	26S	6E	4215
22F17	Trap Creek	1	27S	4E	3800
22G1	Whalebeck	3	31S	2E	5140
22F15	Windigo Pese	20	25S	6E	5800
ROGUE RIVER BASIN					
23G4	Althouse	17	41S	7W	4530
22G6	Annie Spring	19	31S	6E	6018
22G21	Big Red Mountain	31	40S	1W	6500
22G13	Billie Creek Divide	30	36S	5E	5300
22G14	Fish Lake	3	37S	4E	4865
22G12	Fourmile Lake	9	36S	5E	6000
23G1	Goolaway Gap	32	32S	3W	3050
23G2	Goolaway Mountain	30	32S	3W	3780
2303	Grayback Peak	9	40S	5W	6000
22G17	Hobart Lake	17	40S	3E	5010
22G16	Hyatt Prairie Reservoir	15	39S	3E	4900
22G22	Little Red Mountain	25	40S	2W	6500
2306	Oregon Caves	16	40S	6W	4000
2305	Page Mountain	8	41S	7W	4045
2205	Park Neadquarters	8	31S	6E	6450
22H1	Scragg Mountein (Cal)	9	47N	10W	6200
22G10	Seven Lakes No. 1	3	34S	5E	6800
22G11	Seven Lakes No. 2	26	33S	5E	6200
2202	Silver Burn	30	30S	4E	3720
22G20	Siskiyou Summit	17	40S	2E	4630
2209	South Fork Canal	12	33S	3E	3500
22G18	Wagner Butte	1	40S	1W	6900
22G1	Whaleback	3	31S	2E	5140
KLAMATN RIVER BASIN					
22G6	Annie Spring	19	31S	6E	6018
22G13	Billie Creek Oivide	30	36S	5E	5300
21F11	Chemult	21	27S	8E	4760
KLAMATH RIVER BASIN (Cont'd.)					
20H2	Crowder Flat (Cal)	30	47N	11E	5200
22G12	Fourmile Lake	9	36S	5E	6000
21G4	Gerber	12	39S	13E	4850
22G16	Hyatt Prairie Reservoir	15	39S	3E	4900
22G15	Lake of the Woods	11	37S	5E	4960
22G5	Park Headquarters	8	31S	6E	6450
2006	Quartz Mountain	2	38S	16E	5320
22G10	Seven Lakes No. 1	3	34S	5E	6800
22G11	Seven Lakes No. 2	26	33S	5E	6200
20H1	State Line (Cal)	21	48N	11E	5750
2009	Strawberry	4	40S	16E	5600
2002	Summer Rim	15	33S	16E	7200
2102	Sun Mountain	22	32S	7½E	5350
21G3	Taylor Butte	16	33S	11E	5100
INTERIOR DRAINAGE					
GOOSE LAKE BASIN					
20G8	Camas Creek	5	39S	21E	5720
20G11	Cox Flat	16	37S	18E	5750
20H2	Crowder Flat (Cal)	30	47N	11E	5200
20G6	Quartz Mountain	2	38S	16E	5320
20H1	State Line (Cal)	21	48N	11E	5750
20G9	Streweberry	4	40S	16E	5600
WARNER LAKE BASIN					
20G8	Camas Creek	5	39S	21E	5720
20G10	Sherman Valley	15	37S	21E	6600
GUANO LAKE BASIN					
19H1	Bald Mountain (Nev)	17	45N	21E	6720
ABERT LAKE BASIN					
20G11	Cox Flat	16	37S	18E	5750
20G4	Mill Creek	1	34S	17E	6200
20G10	Sherman Valley	15	37S	21E	6600
SUMMER LAKE BASIN					
20G2	Summer Rim	15	33S	16E	7200
SILVER LAKE BASIN					
21F12	Silver Creek	25 & 26	29S	13E	4900
MALHEUR & HARNEY LAKES BASIN					
18G2	Fish Creek	4	33S	32½E	7900
18F3	Idlewild Camp	33	20S	31E	5200
19E9	Izee Summit	28	16S	29E	5293
18F1	Rock Spring	23	18S	32E	5100
18G1	Silvies	35	32S	33E	6900
19F1	Snow Mountein	1	19S	26E	6300
19E7	Starr Ridge	20	15S	31E	5150
18F4	Stinking Water	33	21S	34E	4800
ALVORD LAKE BASIN (Trout and Whitehorse Creeks)					
18H1	Oieaster Peak (Nev)	8	47N	34E	6500
QUINN RIVER BASIN (McDermitt and Tenmile Creeks)					
18H1	Oisaster Peak (Nev)	8	47N	34E	6500
THE CALIFORNIA OREGON POWER COMPANY'S SNOW STATIONS					
KLAMATN LAKE BASIN (Cregon & Calif. Coast Drainage)					
1	Beatty (COPCO)	22	36S	12E	4300
10	Bly 101 Ranch (COPCO)	22	35S	14E	4800
2	Chemult (COPCO)	21	27S	8E	4761
3	Chiloquin (COPCO)	34	34S	7E	4187
4	Crystal (COPCO)	26	34S	6E	4200
5	Fort Klamath (COPCO)	22	33S	7½E	4150
8	Harriman Lodge (COPCO)	3	36S	6E	4200
6	Kirk (COPCO)	1	33S	7E	4533
7	Lake of the Woods (COPCO)	15	37S	5E	4960
12	Yamsey (COPCO)	20	31S	11E	4600
GOOSE LAKE BASIN (Interior Orainage)					
9	Quartz Mountain (COPCO)	33	37S	16E	5504


MARCH 1, 1956
WATER CONTENT OF SNOW
Less than 80% of average
Within 20% of average
More than 20% above average
Average = Average value for period of record
WASHINGTON
OREGON
CALIFORNIA
NEVADA
IDAHO
PACIFIC OCEAN
COLUMBIA RIVER
SNAKE RIVER
Willamette River
Deschutes River
John Day River
Umatilla River
Grande Ronde River
Powder River
Malheur River
Owyhee River
Klamath Lake
Upper Klamath L.
Lower Klamath L.
Goose Lake
Summer Lake
Silver Lake
Harney Lake
Malheur Lake
Alvord Lake
Warner Lakes
Abert Lake
Crater L.
Owyhee Reservoir
PORTLAND
CLATSOP
COLUMBIA
WASHINGTON
TILLAMOOK
YAMHILL
MULTNOMAH
CLACKAMAS
POLK
MARION
LINCOLN
BENTON
LINN
JEFFERSON
WASCO
SHERMAN
GILLIAM
WHEELER
GRANT
MORROW
UMATILLA
UNION
WALLOWA
BAKER
CROOK
DESCHUTES
LANE
DOUGLAS
COOS
CURRY
JOSEPHINE
JACKSON
KLAMATH
LAKE
HARNEY
MALHEUR
OWYHEE
DEL NORTE
SISKIYOU
MODOC
WASHOE
HUMBOLDT
ELKO
Lower Deschutes
Upper Deschutes
Crooked
John Day
Willow
Malheur
Owyhee
Rogue
Umpqua
Klamath
Powder
Burnt
Pine
Grande Ronde
Imnaha
Walla Walla
Willow Cr.
Umatilla
Trout Cr.
Dry Cr.
Crooked
Willow Creek
South Fork
Lost River
Drews Res.
Guano Lake
North Umpqua River
Coquille River
Rogue River
Sprague R.
Applegate
Illinois
Chetco
Smith
Winchuck
Pistol
Elk
Sixes
Floras
Sandy
Hood River
Little Deschutes
Metolius
Trout Creek
Owyhee River
South Fork
Malheur River
Powder River
Burnt River
Willow Creek
Imnaha River
Grande Ronde River
Umatilla River
Willow Cr.
John Day River
Crooked River
Deschutes River
Willamette River
Rogue River
Umpqua River
Sprague R.
Lost River
Klamath Lake
Upper Klamath L.
Lower Klamath L.
Crater L.
Summer Lake
Silver Lake
Harney Lake
Malheur Lake
Alvord Lake
Warner Lakes
Abert Lake
Goose Lake
Drews Res.
Guano Lake
Owyhee Reservoir
WATER CONTENT of SNOW on OREGON WATERSHEDS
Based on snow surveys made on approximately first day of month
(Valley Lands Not Necessarily Included)
20 0 20 40 60
SCALE IN MILES
7-0-10805-L
DECEMBER 1954
U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE

WATER SUPPLY OUTLOOK FOR OREGON
March 1, 1956

Oregon's exceptionally heavy snow crop assures "good" to "abundant" spring and summer water supplies with forecasts of near record or record-breaking streamflows accompanied by high water in many areas. Reservoired supplies are good.

SNOW COVER: Water content of mountain snow-cover averages 146 percent normal on Oregon's watersheds. This year's snow is 194 percent of last year's at this date. Above 5000 feet the snow is 143 percent of the 15 year average (1938-52). The snow below 5000 feet is 155 percent average. New records of high water content have been established at several snow courses in the Rogue-Klamath and Wallowa Mountain areas. Present snow-cover equals or exceeds the usual April 1 water content in most areas of the state.

SOIL MOISTURE: The soil mantle of mountain watersheds throughout the state, extremely dry at the beginning of the winter season, is now thoroughly wetted. This will materially increase the total amount of snow-melt water which will reach the streams and will speed up the run-off.

RESERVOIRED WATER: Stored water in 20 important irrigation reservoirs is 44 percent greater than last year at this date and 9 percent above average. Reservoirs not already filled are assured adequate inflow from present snow-cover. Some reservoirs are spilling to make room for expected inflow yet to come.

PRECIPITATION: Winter precipitation[1] (December through February) has been about 165 percent of the 15 year normal. Fall precipitation (September through November) was well above normal.

STREAMFLOW: Outlook for spring and summer streamflow is "good" to "abundant" with average total winter snow accumulation already exceeded in most areas of the state.

Streamflow forecasts vary from average to above 165 percent of average. Historical high flows are expected to be very nearly equalled or even exceeded in the following Basins: Malheur, Burnt, Powder, Imnaha, Wallowa, Grande Ronde, John Day, Deschutes, Applegate, Illinois, Rogue, Klamath, Chewaucan, and Warner Lake. (See pages 2-6 for individual forecasts for 66 Oregon streams.)

February streamflow has been generally below normal[2] except in the Rogue, Klamath, and Owyhee watersheds which are 118, 172 and 394 percent average respectively.

[1]From preliminary data furnished by U. S. Weather Bureau, Portland, Oregon.
[2]From preliminary data furnished by U. S. Geological Survey, Portland, Oregon.

OREGON STREAMFLOW FORECASTS - MARCH 1, 1956

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature during the forecast period will be near average. Appreciable deviations from normal of temperature and/or precipitation during the forecast period will correspondingly modify these forecasts.

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1956	% 15-Yr. Avg.	Forecast Period	Measured Runoff* 1954	Measured Runoff* 1953	15 - Yr. Average 1938-52
Columbia River nr. The Dalles**	125000.0	129	Apr-Sept.	116986.0	99800.0	97006.0
UPPER COLUMBIA BASIN LOWER SNAKE IN OREGON						
Owyhee River Basin						
Owyhee Reservoir net inflow[1]	575.0	101	Mar-July	137.5	332.0	569.5
Malheur River Basin						
Malheur River, nr. Drewsey	118.0	145	Apr-Sept.	44.4	106.4	81.5
Malheur River, N.Fk., at Beulah[2]	90.0	141	Apr-Sept.	45.9	89.6	63.9
Burnt River Basin						
Burnt River, nr. Hereford[3]	62.0	148	Apr-Sept.	23.0	61.4	41.8
Powder River Basin						
Powder River,	84.0	132	Apr-Sept.	39.9	93.0	63.4
at Salisbury	82.0	133	Apr-July	38.4	90.1	61.6
Grande Ronde River Basin						
Imnaha River at Imnaha	510.0	168	Apr-Sept.	253.7	359.9	303.4
Wallowa River, E.Fk.,	17.0	150	Apr-Sept.	11.3	14.4	11.3
nr. Joseph[4]	14.0	152	Apr-July	8.9	10.9	9.2
Hurrican Creek, nr. Joseph	60.0	133	Apr-Sept.	43.1	56.9	45.1
Lostine River, nr. Lostine	180.0	146	Apr-Sept.	118.5	141.8	123.5
Bear Creek, nr. Wallowa	100.0	145	Apr-Sept.	63.9	70.8	69.1
Catherine Creek, nr. Union	92.0	129	Apr-Sept.	50.6	96.1	71.1
Grande Ronde River at La Grande	250.0	141	Apr-Sept.	122.3	234.9	176.9

*Discharge data from preliminary records of U. S. Geological Survey and Oregon State Engineer. 1955 records not available at this time.

**Forecast by Boise Office, Soil Conservation Service. Corrected for storage.

[1]From U.S.B.R. records of inflow.

[2]Observed flow + change in storage in Agency Valley Reservoir.

[3]Observed flow plus change in storage in Unity Reservoir.

[4]Includes power plant tailrace.

[c]Records not available.

Streamflow Forecasts - March 1, 1956 (Cont'd.)

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet. Forecast Runoff 1956	% 15-Yr. Avg.	Fore-cast Period	Measured Runoff* 1954	1953	15 - Yr. Average 1938-52
LOWER COLUMBIA BASIN						
Umatilla River Basin						
Umatilla River, nr. Gibbon	102.0	118	Apr-Sept.	72.6	94.0	86.8
Umatilla River, at Pendleton	200.0	119	Apr-Sept.	117.7	197.9	167.4
	185.0	120	Apr-July	111.5	193.4	154.5
McKay Creek nr. Pilot Rock	30.0	108	Apr-Sept.	17.0	41.2	27.8
	29.0	105	Apr-July	16.9	41.1	27.6
Walla Walla River Basin						
Walla Walla R.,So. Fk., nr. Milton	76.0	108	Apr-Sept.	66.4	74.2	70.5
	62.0	107	Apr-July	52.6	59.9	57.8
John Day River Basin						
Strawberry Cr. nr. Prairie City	10.0	120	Apr-Sept.	7.7	11.1	8.3
John Day River at Prairie City[5]	74.0	147	Apr-Sept.	42.5	61.5	50.4
	67.0	148	Apr-July	37.5	54.9	45.3
John Day River, Mid.Fk. at Ritter	185.0	152	Apr-Sept.	92.8	165.3	121.7
John Day River, N.Fk., nr. Dale	365.0	147	Apr-Sept.	229.7	333.8	248.4
Crooked River Basin						
Crooked R., nr. Post	135.0	109	Apr-Sept.	70.5	173.6	124.2[d]
Ochoco Res., net inflow[6]	29.0	104	Apr-Sept.	18.6	38.0	28.0
Deschutes River Basin						
Crescent Creek at Crescent Lake[7]	35.0	165	Apr-Sept.	43.0	40.9	21.2
Little Deschutes R., nr. Lapine[7]	130.0	145	Apr-Sept.	134.4	138.3	89.6
	120.0	152	Apr-July	117.8	118.8	79.1
Odell Cr., nr. Crescent	37.0	127	Apr-Sept.	37.5	37.1	29.2
Deschutes River, below Snow Creek	86.0	142	Apr-Sept.	80.8	75.0	60.4
Crane Prairie Res. inflow[8]	160.0	133	Apr-Sept.	149.9	148.1	120.6

*Discharge data from preliminary records of U. S. Geological Survey and Oregon State Engineer. 1955 records not available at this time.

[5]Observed flow + Prairie Power Canal.

[6]Observed flow of Ochoco Cr. + Canal + changes in storage of Ochoco Res.

[7]Observed flow + changes in storage of Crescent Lake Reservoir.

[8]From State Engineer's file #3220a, tabulating total inflow to Crane Prairie Reservoir and outflow, showing the loss in the Reservoir.

[c]Records not available.

[d]1938-39 excepted.

Streamflow Forecasts - March 1, 1956 (Cont'd.)

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1956	% 15-Yr. Avg.	Fore-cast Period	Measured Runoff* 1954	1953	15 - Yr. Average 1938-52
Deschutes River Basin (Continued)						
Deschutes River	690.0	135	Apr-Sept.	697.9	661.2	511.0
at Benham Falls[9]	470.0	136	Apr-July	469.0	433.2	396.3
Tumalo Creek, nr. Bend[10]	67.0	139	Apr-Sept.	59.8	61.3	48.3
Squaw Creek, nr. Sisters	67.0	136	Apr-Sept.	c	57.8	49.3
White River,	210.0	138	Apr-Sept.	176.3	159.8	152.0
below Tygh Valley	190.0	141	Apr-July	157.7	142.2	134.7
Hood River Basin						
Hood River, W. Fk.,	190.0	129	Apr-Sept.	197.8	138.9	146.9
nr. Dee	160.0	126	Apr-July	172.4	118.0	127.3
Hood River,	405.0	132	Apr-Sept.	399.4	314.5	306.1
nr. Hood River[11]	350.0	135	Apr-July	343.1	258.7	259.7
Willamette River Basin						
Row River,	120.0	119	Apr-Sept.	c	146.3	100.5
nr. Dorena	115.0	120	Apr-July	c	141.3	96.1
McKenzie R.,	740.0	131	Apr-Sept.	668.8	658.1	564.7
at McKenzie Bridge	560.0	130	Apr-July	497.4	491.1	429.9
McKenzie River,	1580.0	132	Apr-Sept.	1336.4	1465.2	1194.7
nr. Vida	1300.0	133	Apr-July	1064.0	1188.3	978.0
South Santiam	760.0	136	Apr-Sept.	592.6	723.9	558.0
at Waterloo	730.0	139	Apr-July	532.0	686.5	524.6
North Santiam	1150.0	137	Apr-Sept.	955.4	792.9	841.5
at Mehama[12]	1050.0	140	Apr-July	742.6	665.6	748.0
Willamette River	6200.0	142	Apr-Sept.	4902.3	6085.7	4354.5
at Salem[12]	5600.0	145	Apr-July	3985.3	5361.3	3863.4
Clackamas River,	205.0	125	Apr-Sept.	201.3	167.6	163.6
at Big Bottom	170.0	128	Apr-July	164.0	134.3	132.5
Oak Grove Fk.	225.0	121	Apr-Sept.	217.8	196.0	185.7
abv. Power Intake	180.0	124	Apr-July	168.8	150.0	145.3
Clackamas River	715.0	119	Apr-Sept.	722.7	627.6	599.3
abv. Three Lynx	620.0	122	Apr-July	616.4	525.5	507.4
Clackamas River	950.0	122	Apr-Sept.	932.4	827.8	777.2
nr. Cazadero	860.0	129	Apr-July	798.9	707.0	668.7

*Discharge data from preliminary records of U. S. Geological Survey and Oregon State Engineer. 1955 records not available at this time.

[9]Observed flow ± changes in storage in Crane Prairie, Wickiup and Crescent Lake Reservoirs.

[10]Observed flow ± Columbia Southern Canal.

[11]Observed flow plus P.P. & L. Co. power canal.

[12]Observed flow ± changes in storage in any of the following reservoirs which are above the station: Lookout Point, Detroit, Fern Ridge, Cottage Grove and Dorena.

c Records not available.

Streamflow Forecasts - March 1, 1956 (Cont'd.)

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1956	% 15-Yr. Avg.	Fore-cast Period	Measured Runoff* 1954	Measured Runoff* 1953	15 - Yr. Average 1938-52
OREGON AND CALIFORNIA COAST BASINS						
Umpqua River Basin						
No. Umpqua River, below Lake Creek	200.0	122	Apr-Sept.	218.0	212.4	164.0
Clearwater River, above Trap Creek	75.0	117	Apr-Sept.	86.2	81.3	64.2
Rogue River Basin						
Hyatt Res., net Inflow[13]	8.8	147	Apr-Sept.	6.4	9.6	6.0
Fourmile Lake, net Inflow[14]	10.2	146	Apr-Sept.	c	2.2	7.0
Little Butte Cr.N.Fk. below Fish Lake[15]	22.0	148	Apr-Sept.	c	21.0	14.9
Rogue R. So. Fk.,	104.0	137	Apr-Sept.	78.4	92.6	76.1
nr. Prospect[16]	88.0	135	Apr-July	65.5	77.6	65.1
Rogue R. Mid. Fk.,	95.0	128	Apr-Sept.	83.0	93.8	74.3
nr. Prospect[17]	75.0	128	Apr-July	64.3	72.5	58.7
Rogue River,	425.0	134	Apr-Sept.	375.1	416.4	316.5
above Prospect	360.0	136	Apr-July	305.9	344.5	265.1
Rogue River,	875.0	129	Apr-Sept.	741.2	885.9	680.8
below South Fork	730.0	132	Apr-July	588.9	713.3	553.0
Rogue R., at Raygold,	1220.0	135	Apr-Sept.	987.3	1276.2	905.6
nr. Central Point	1030.0	135	Apr-July	803.8	1069.7	760.7
Rogue River, at Grants Pass	1160.0	136	Apr-Sept.	967.9	1257.9	852.8[d]
Applegate River, nr. Copper	200.0	172	Apr-Sept.	154.7	185.5	116.0[d]
Illinois River, at Kerby	340.0	188	Apr-Sept.	191.7	330.9	181.2

*Discharge data from preliminary records of U. S. Geological Survey and Oregon State Engineer. 1955 records not available at this time.

[13]Observed flow of Keene Creek at Hyatt Prairie ± storage changes ± 1600 a.f. for estimated evaporation during April-September period.

[14]Observed outflow into Cascade Canal ± storage changes ± 1600 a.f. for estimated evaporation during April-September period.

[15]Observed flow plus changes in storage in Fish Lake Reservoir ± 90% of Cascade Canal inflow

[16]Observed flow ± South Fork Power Canal.

[17]Observed flow ± Middle Fork Power Canal.

[c]Records not available

[d]1938 excepted.

Streamflow Forecasts - March 1, 1956 (Cont'd.)

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1956	% 15-Yr. Avg.	Fore-cast Period	Measured Runoff* 1954	Measured Runoff* 1953	15 - Yr. Average 1938-52
Klamath River Basin						
Sprague River, nr. Chiloquin	390.0	155	Apr-Sept.	351.1	394.5	252.6
Williamson River, below Sprague R.	630.0	155	Apr-Sept.	643.0	650.2	406.0
			Apr-July	553.9	560.3	340.2
Upper Klamath Lake, net Inflow[18]	830.0	158	Apr-Sept.	834.5	893.8	525.6
	690.0	162	Apr-July	687.1	738.2	424.1
Clear Lake Res., net Inflow	70.0	167	Mar-July	66.9	79.7	86.3
Gerber Res., net Inflow	140.0	162	Mar-July	42.0	44.0	42.0
GREAT BASIN INTERIOR DRAINAGE						
Goose Lake Basin						
Drew Reservoir, net Inflow	51.0	115	Mar-July	53.0	53.7	44.2[d]
Warner Lake Basin						
Twentymile Cr. nr. Adel	35.0	166	Apr-June	8.9	20.0	21.1[e]
Deep Creek, above Adel	115.0	171	Apr-June	56.0	82.0	67.2
Honey Creek, nr. Plush	26.0	167	Apr-June	13.7	17.0	15.6[f]
Chewaucan River Basin						
Chewaucan River, nr. Paisley	105.0	144	Apr-June	97.8	103.8	72.8
Malheur and Harney Lakes Basin						
Trout Creek, nr. Denio	Not Forecast		Apr-Sept.	3.5	11.2	9.6
Donner und Blitzen R., nr. Frenchglen	Not Forecast		Apr-Sept.	45.0	72.1	66.3
Silvies River, nr. Burns	110.0	108	Apr-Sept.	51.7	138.1	102.3

* Discharge data from preliminary records of U. S. Geological Survey and Oregon State Engineer. 1955 records not available at this time.

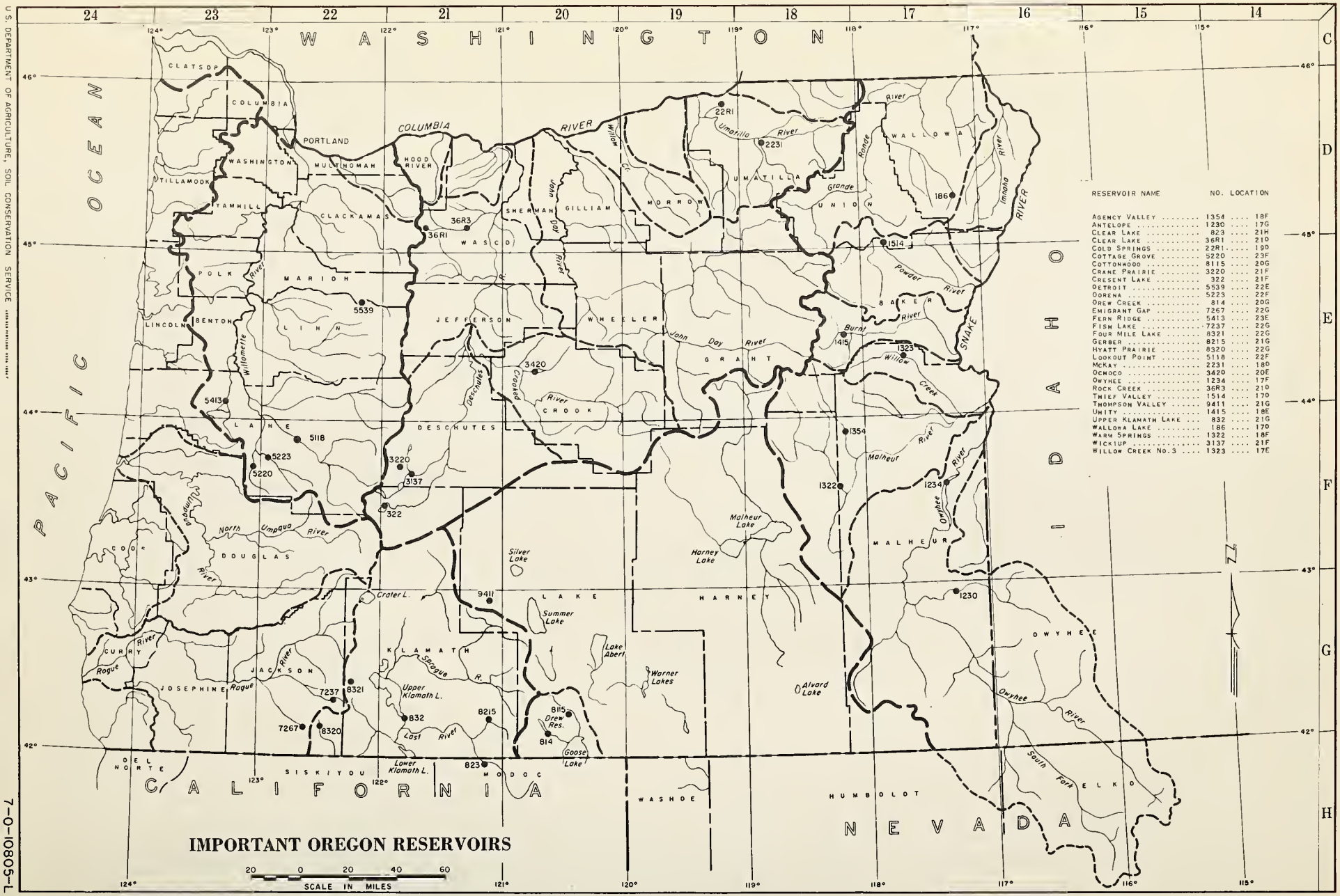
[18] From COPCO records of inflow.

[c] Records not available.

[d] 1942-43 and 1945 excepted.

[e] 1938-40 excepted.

[f] 1942 excepted.



U. S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE

7-0-10805-L

DECEMBER 1954

STATUS OF OREGON RESERVOIR STORAGE - MARCH 1, 1956

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET 1956	1955	1954	15-Yr.Avg. 1938-52
	UPPER COLUMBIA DRAINAGE					
	Lower Snake in Oregon					
Owyhee	Antelope	36.5	N.R.	N.R.	16.0	9.6
	Owyhee	715.0	342.8	182.3	468.1	513.7
Malheur	Warm Springs	191.0	57.5	27.5	121.9	88.2
	Agency Valley	60.0	25.4	23.6	29.2	38.2
Burnt	Unity	25.2	12.8	3.3	8.6	9.6[b]
Grande Ronde	Wallowa Lake	40.9	24.4	17.8	33.3	19.8
	LOWER COLUMBIA DRAINAGE					
Umatilla	McKay	74.0	54.0	13.1	37.6	45.3
	Cold Springs	50.0	39.8	30.1	40.4	40.3
Deschutes	Ochoco	46.0	35.0	21.7	42.3	22.0
	Crescent Lake	54.9	51.7	23.1	44.0	40.9[c]
	Crane Prairie	55.3	50.0	45.1	47.7	37.0
	Wickiup	203.0	170.6	198.4	191.0	105.6[d]
Willamette	Cottage Grove	30.1[a]	8.5	6.3	7.6	7.3[d]
	Dorena	70.5[a]	18.4	14.0	16.6	- -
	Fern Ridge	94.2[a]	37.9	25.8	26.3	29.3[e]
	Detroit	340.0[a]	42.3	52.7	166.8	- -
	Lookout Pt.	350.0[a]	101.5	68.0	- -	- -
	OREGON AND CALIFORNIA COAST DRAINAGE					
Rogue	Fish Lake	7.8	4.9	5.5	6.6	4.7
	Fourmile Lake	16.1	N.R.	9.3	15.9	7.0
	Emigrant Gap	8.3	8.4	2.0	8.2	6.4
	Hyatt Prairie	16.1	6.4	9.9	13.1	5.5
Klamath	Upper Klamath Lk.	584.0	482.0	366.9	491.7	388.7
	Gerber	94.0	52.7	27.4	51.5	35.3[b]
	Clear Lake	440.2	332.6	223.0	282.0	207.7[b]
	INTERIOR DRAINAGE					
Goose Lake	Cottonwood	4.1	0.3	0.2	0.0	0.6[f]
	Drew	62.5	47.7	24.0	44.2	39.0[f]

N.R. -- No report.
[a]Storage space reserved for flood control.
[b]1938 excepted.
[c]1951 excepted.
[d]1938-42 excepted.
[e]1938-41 excepted.
[f]1942 excepted.

COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of Oregon stream basins presents the water content of the snow about March 1, 1956 as percent of the same date in 1955 and 1954 and average:

DRAINAGE	No. of Courses Averaged	Yrs. Used 1938-52 Avg.	March 1, 1956 Water Content as percent of: 1955	1954	1938-52 Average
UPPER COLUMBIA DRAINAGE (Lower Snake in Oregon)					
Owyhee River	15-16	7-15	186	227	120
Malheur River	8-9	8-15	185	181	138
Burnt River	5-6	8-15	198	171	132
Powder River	5	5-15	178	144	130
Pine Creek	1	3	197	122	- -
Imnaha River	2	9	275	138	156
Grande Ronde River	9	6-15	174	146	143
Wallowa River	2	9	275	138	156
Catherine Creek	1	14	149	140	136
Main Grande Ronde	6	6-15	141	154	136
LOWER COLUMBIA DRAINAGE					
Walla Walla River	1	15	124	117	120
Umatilla River	5	15	122	176	131
Willow Creek	1	15	150	181	136
John Day River	12	6-15	175	163	141
North Fork	6	6-15	166	154	142
Middle Fork	3	9-15	197	162	141
Main Branch	3	15	191	171	145
South Fork	1	15	152	171	132
Crooked River	2-3	15	161	167	120
Deschutes River	6-13	5-14	233	134	139
Hood River	4-5	5-15	146	117	120
Willamette Valley	10-11	8-15	172	125	148
Sandy River	3	11-15	142	119	147
Clackamas River	3	11-15	217	120	146
Santiam Rivers	3	12	176	135	152
McKenzie River	2	12	177	134	153
Middle Fork	2-3	8-15	197	128	148
Coast Fork	1	14	140	115	169
OREGON AND CALIFORNIA COAST DRAINAGE					
Umpqua River	4-6	6-15	213	132	169
Rogue River	14-17	5-15	219	135	164
Upper Rogue	7	5-15	204	127	142
Bear-Little Butte Cr.	6-7	5-15	228	151	185
Applegate River	2	12-15	308	163	260
Illinois River	2-3	12-15	338	189	329
Klamath Lake Basin	17-19	5-15	207	139	155
Williamson River	10	10-15	334	142	153
Sprague River	5	12-15	220	206	199
Gerber-Clear Lake Basin	2-3	12	204	211	203
INTERIOR DRAINAGE					
Goose Lake Basin	3	12-15	210	179	192
Warner Lake Basin	1	10	202	190	179
Silver Lake Basin	1	13	264	132	242
Chewaucan River	2	12-13	238	134	196
Harney Basin	7	14-15	176	188	140
Alvord Lake Basin	1	5	396	310	- -

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	1956 Snow Depth (In.)	1956 Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
UPPER COLUMBIA DRAINAGE									
LOWER SNAKE IN OREGON									
OWYHEE RIVER									
*Bear Creek	15H1	7800	3-2	65	22.7	13.0	- -	17.1	22
*Granite Peak	17H4	7800	3-2	44	17.0	7.1[a]	4.1	11.2	24
Upper Jack Creek	16H2	7250	3-1	27	7.8[a]	7.6	5.4	9.6**	19
*Midas	16H3	7200	Not measured			- -	0.0	5.2**	14
*Upper Buckskin	17H1	7200	3-5	22	7.3	- -	0.7	9.9**	20
*76 Creek	15H3	7100	Not measured			7.7[a]	7.6	2.3**	9
*Fox Creek	15H2	6800	3-2	31	8.6	7.4	- -	8.8	22
Lower Jack Creek	16H1	6800	3-1	12	3.3[a]	4.2[a]	T	4.0	28
Rodeo Flat	15H6	6800	2-29	28	8.1[a]	5.8	4.7	9.9	22
Big Bend	15H4	6700	2-29	43	13.0	4.4	5.5	9.4	27
Fry Canyon	15H7	6700	2-29	32	9.0[a]	5.5	4.8	9.0	22
*Lower Buckskin	17H2	6700	3-4	33	11.0	5.1	5.9	8.9	21
*Martin Creek	17H3	6700	3-1	33	10.8	6.5	5.6	8.6	24
Gold Creek	15H5	6600	2-29	28	9.3	3.7[a]	4.1	6.3	23
*Disaster Peak	18H1	6500	2-28	63	22.6	5.7	7.3	- -	7
Silver City	16F3	6400	3-4	59	18.7[a]	10.4[a]	12.6	15.2**	10
South Mountain #2	16G1	6340	2-29	45	14.8	8.9	6.7	11.9**	16
Taylor Canyon	15H9	6200	3-1	28	9.3[a]	4.9	5.4	5.4	21
*Tremewan Ranch	15H8	5700	3-1	13	3.3	1.3	T	2.2	24
Cliffs	16G2	5200	3-1	7	2.4	No previous record.			
Lowery Ranch	16G3	4800	Not measured			No previous record.			
MALHEUR RIVER									
*Barney Creek	18E14	5950	3-1	37	10.4	4.7	7.1	8.3**	11
Blue Mountain Spg.	18E16	5900	2-29	68	20.5	10.4	14.6	14.9	20
Crane Prairie	18E19	5375	2-29	47	13.9	7.0	7.7	9.6**	17
Lake Creek	18E18	5120	2-29	48	14.3	9.4	9.3	10.7**	17
Rock Spring	18F1	5100	2-28	31	7.9	5.3	3.8	6.3	20
Stinking Water	18F4	4800	2-28	21	7.3	3.8	0.0	4.7**	16
Eldorado Pass	18E20	4600	2-29	16	4.7	3.5	- -	- -	1
BURNT RIVER									
Barney Creek	18E14	5950	3-1	37	10.4	4.7	7.1	8.3**	11
Dooley Mountain	17E1	5430	3-2	38	11.1	5.6	5.5	9.3**	17
*Gold Center	18E8	5340	2-25	61	17.2	8.8	12.0	12.3**	16
Tipton	18E9	5100	3-1	51	14.8	7.6	7.6	11.4**	12
Blue Mountain Smt.	18E13	5098	3-1	44	13.0	5.8	6.8	9.0	20
Eldorado Pass	18E20	4600	2-29	16	4.7	3.5	- -	- -	1
POWDER RIVER									
Anthony Lake	18E1	7125	2-24	97	31.6	18.2	22.9	24.3**	16
Goodrich Lake	18E6	6775	Report delayed			17.5	34.9	37.3**	8
Bourne	18E5	5800	2-26	72	20.4	11.1	14.3	15.6**	19

* Not located directly on this drainage area.

[a] Telegraphic. ** Average is for less than 15 years of record in the 1938-52 period but not less than 5 years.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	1956 Snow Depth (In.)	1956 Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
UPPER COLUMBIA DRAINAGE									
POWDER RIVER (Cont'd)									
Dooley Mountain	17E1	5430	3-2	38	11.1	5.6	5.5	9.3**	17
Eilertson Meadows	18E3	5400	3-4	53	14.5	9.4	11.0	11.5**	17
*Gold Center	18E8	5340	2-25	61	17.2	8.8	12.0	12.3**	16
PINE CREEK									
Schneider Meadows	17D8	5400	2-29	98	32.3	16.4	26.5	- -	5
IMNAHA RIVER									
*Aneroid Lake No. 1	17D1	7480	3-2	136	52.8	17.2	35.8	31.4**	12
*Aneroid Lake No. 2	17D2	7000	3-2	108	35.1	14.8	27.9	25.0**	12
GRANDE RONDE RIVER									
Aneroid Lake No. 1	17D1	7480	3-2	136	52.8	17.2	35.8	31.4**	12
Anthony Lake	18E1	7125	2-24	97	31.6	18.2	22.9	24.3**	16
Aneroid Lake No. 2	17D2	7000	3-2	108	35.1	14.8	27.9	25.0**	12
Moss Spring	17D6	5850	3-2	89	28.5	19.1	20.4	21.0**	17
Beaver Reservoir	18D9	5340	2-27	63	16.2	8.6	10.2	10.5**	16
Tollgate	18D3	5070	2-29	87	29.2	23.5	24.9	25.6**	17
*Lucky Strike	18D6	5050	2-27	63	17.4	10.5	9.9	12.1**	17
Schoolmarm	18D7	4775	2-27	38	9.0	8.4	3.4	4.6**	9
Meacham	18D5	4300	3-1	47	13.8	14.2	4.6	9.3	19
County Line	18D8	4800	2-27	43	10.9	8.4	4.4	- -	4
LOWER COLUMBIA DRAINAGE									
WALLA WALLA RIVER									
Tollgate	18D3	5070	2-29	87	29.2	23.5	24.9	25.6**	17
UMATILLA RIVER									
Arbuckle Mountain	19D2	5400	2-28	51	15.2	10.1	8.4	11.2**	14
Tollgate	18D3	5070	2-29	87	29.2	23.5	24.9	25.6**	17
Lucky Strike	18D6	5050	2-27	63	17.4	10.5	9.9	12.1**	17
Meacham	18D5	4300	3-1	47	13.8	14.2	4.6	9.3	19
Emigrant Springs	18D4	3925	3-1	37	10.1	11.8	1.0	7.2	19
WILLOW CREEK									
Arbuckle Mountain	19D2	5400	2-28	51	15.2	10.1	8.4	11.2**	14

*Not located directly on this drainage area. **Average is for less than 15 years of record in the 1938-52 period but not less than 5 years.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	1956 Snow Depth (In.)	1956 Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
LOWER COLUMBIA DRAINAGE									
JOHN DAY RIVER									
*Anthony Lake	18E1	7125	2-24	97	31.6	18.2	22.9	24.3**	16
*Snow Mountain	19F1	6300	Not measured			- -	- -	10.8**	5
Olive Lake	18E7	6000	2-28	77	25.1	13.4	18.2	17.0	20
Blue Mountain Spgs.	18E16	5900	2-29	68	20.5	10.4	14.6	14.9	20
Arbuckle Mountain	19D2	5400	2-28	51	15.2	10.1	8.4	11.2**	14
Gold Center	18E8	5340	2-25	61	17.2	8.8	12.0	12.3**	16
*Izee Summit	19E9	5293	2-29	39	10.8	7.1	6.3	8.2	20
Starr Ridge	19E7	5156	2-29	37	10.3	4.9	4.8	5.8	20
Tipton	18E9	5100	3-1	51	14.8	7.6	7.6	11.5**	12
Blue Mountain Smt.	18E13	5098	3-1	44	13.0	5.8	6.8	9.0	20
*Lucky Strike	18D6	5050	2-27	63	17.4	10.5	9.9	12.1**	17
Beech Creek Summit	19E2	4800	3-1	29	8.3	5.2	3.4	6.2	19
Schoolmarm	18D7	4775	2-27	38	9.0	8.4	3.4	4.6**	9
CROOKED RIVER									
Derr	19E3	5670	3-1	41	12.0	7.5	- -	- -	1
Ochoco Meadows	20E2	5200	2-29	46	12.2	6.4	8.5	10.9	19
Tamarack	19E4	4800	Report delayed			6.2	4.1	6.3**	13
Marks Creek	20E1	4540	3-2	20	5.5	4.5	2.1	5.0	18
DESCHUTES RIVER									
New Dutchman Flat	21E2	6400	2-28	161	67.5	28.6	56.3	53.9**	8
Paulina Lake	21F13	6330	2-29	85	28.2	11.6	- -	- -	1
Windigo Pass	22F15	5800	3-2	171	66.6	24.3	45.2	- -	5
Three Creek Mdws.	21E13	5600	3-6	102	31.8	9.3	24.4	22.3**	9
Willamette Pass	22E14	5600	3-1	142	64.3	24.5	46.0	- -	5
Bobby Lake	21F16	5450	Not measured			24.7	- -	- -	1
Tangent	21F3	5400	2-28	110	36.5	12.8	27.8	- -	4
Fire Road	21F14	5050	2-29	50	14.4	5.4	- -	- -	1
Cascade Summit	22F3	4880	3-1	126	43.0	22.1	34.4	32.0**	11
New Crescent Lake	21F10	4800	3-3	83	25.1	10.8	18.0	- -	4
*Chemult	21F11	4760	2-29	68	19.1	6.7	14.1	11.3**	19
Crescent Lake	21F9	4760	3-3	68	23.7	11.0	17.6	- -	7
Hogg Pass	21E6	4755	3-1	168	58.4	34.2[b]	43.0	39.8**	15
Black Pine Springs	21E11	4600	3-6	42	10.8	2.4	6.7	- -	4
Hungry Flat	21F4	4400	2-28	42	13.5	5.0	11.2	- -	4
Paulina Prairie	21F15	4285	2-29	11	3.5	3.2	- -	- -	1
Clear Lake	21D12	3500	2-28	69	20.8	8.4	14.2	13.1**	14
HOOD RIVER									
Tilly Jane--Mt.Hood	21D7	6000	2-17	130	48.6[b]	27.6	45.2	50.1**	8
Red Hill	21D4	4400	2-26	152	55.7[b]	39.0	48.6[b]	56.4**	8
Greenpoint Reserv.	21D1	3400	2-23	92	28.6	15.2[a]	17.2	- -	7

* Not located directly on this drainage area.

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[a] Telegraphic. [b] Partly estimated.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	1956 Snow Depth (In.)	1956 Water Content (In.)	Past Record Water Content (In.) :1955	1954	1938-52 Avg.	Previous Yrs. of Record
LOWER COLUMBIA DRAINAGE									
WILLAMETTE VALLEY STREAMS									
SANDY RIVER[1]									
Phlox Point-Mt.Hood	21D8	5600	2-28	182	74.4	57.6	65.6	53.3**	17
Still Creek	21D9	3700	2-28	106	33.7	25.0	28.8	21.3	18
*Clear Lake	21D12	3500	2-28	69	20.8	8.4	14.2	13.1**	14
CLACKAMAS RIVER									
*Clear Lake	21D12	3500	2-28	69	20.8	8.4	14.2	13.1**	14
Peavine Ridge	21D14	3500	2-27	91	24.7	13.3	22.7	16.7	18
Clackamas Lake	21D13	3400	2-27	70	19.3	8.1	17.1	14.5**	15
Timothy Meadows	21D17	3200	2-27	79	23.3	No previous record.			
Big Bottom	21D15	2118	2-28	46	15.3	6.6	10.5	- -	5
Lake Harriet	21D16	2045	2-28	19	6.1	1.0	5.3	- -	5
SANTIAM RIVERS									
Hogg Pass	21E6	4755	3-1	168	58.4	34.2[b]	43.0	39.8**	15
Santiam Junction	21E5	3990	3-1	117	37.8	20.2	28.9	23.1**	15
Marion Forks	21E4	2730	3-1	66	24.8	14.5	17.5	16.6**	15
Whitewater Bridge	21E3	2175	3-1	36	11.7	5.8	6.8	- -	6
Detroit (new town)	22E1	1500/	3-1	17	8.0	0.0	0.0	- -	5
Detroit Dam	22E2	1580	3-1	14	7.3	0.0	0.0	- -	6
Mill City	22E3	826	3-1	0	0.0	0.0	0.0	- -	5
Snow Line: Approximately 1140'									
McKENZIE RIVER									
McKenzie	21E7	4800	3-7	178	60.4	36.7	42.4	- -	6
Hogg Pass	21E6	4755	3-1	168	58.4	34.2[b]	43.0	39.8**	15
Santiam Junction	21E5	3990	3-1	117	37.8	20.2	28.9	23.1**	15
Dead Horse Grade	21E8	3800	3-7	117	36.0	21.8	21.8	- -	5
White Branch Slide	21E9	2600	3-7	54	16.0	1.3	0.0	- -	5
Lost Creek Ranch	22E4	1950	3-7	30	10.8	8.3	- -	- -	2
McKenzie Bridge	22E5	1372	3-7	12	3.2	0.0	0.0	- -	4
Vida	22E6	800	3-7	0	0.0	0.0	- -	- -	2
Snow Line: Approximately 960'									

*Not located directly on this drainage area.

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[1]Not strictly a part of the Willamette Drainage; these surveys are indicative of west slope conditions.

[b]Partly estimated.

[a]Telegraphic

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	1956 Snow Depth (In.)	1956 Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
WILLAMETTE VALLEY STREAMS (Cont'd.)									
MIDDLE FORK WILLAMETTE RIVER									
Willamette Pass	22F14	5600	3-1	142	64.3	24.5	46.0	- -	5
Cascade Summit	22F3	4880	3-1	126	43.0	22.1	34.4	32.0**	11
Champion	22F9	4500	3-1	124	37.8	27.0	32.9	22.4**	17
Salt Creek Falls	22F4	4000	3-1	79	24.4	14.6	18.4	- -	7
Railroad Overpass	22F5	2750	3-1	27	8.8	6.2	3.0	- -	7
McCredie Springs	22F6	2120	3-1	10	3.0	0.0	0.0	- -	7
Oakridge	22F7	1310	3-1	0	0.0	0.0	0.0	- -	6
Meridian Dam	22F8	750	3-1	0	0.0	0.0	0.0	- -	6
Snow Line: Approximately 1650'									
COAST FORK WILLAMETTE RIVER (Row River)									
Champion	22F9	4500	3-1	124	37.8	27.0	32.9	22.4**	17
Golden Curry Creek	22F10	3136	3-1	47	14.4	7.2	T	- -	6
Weaver Creek	22F11	2440	3-1	23	7.4	2.3	0.0	- -	5
Lund Park	22F12	1740	3-1	9	2.6	0.0	0.0	- -	6
Layng Creek R.S.	22F13	1200	3-1	0	0.0	0.0	0.0	- -	6
Snow Line: Approximately 1500'									
MARY'S RIVER									
Mary's Peak	23E1	3620	Report delayed			14.7	9.9	- -	3
OREGON AND CALIFORNIA COAST DRAINAGE									
UMPQUA RIVER									
Windigo Pass	22F15	5800	3-2	171	66.6	24.3	45.2	- -	5
Diamond Lake	22F18	5315	3-1	106	33.7	14.5	26.3	20.3	27
Whaleback	22G1	5140	3-3	149	50.8	23.1	38.1	36.9**	8
Champion	22F9	4500	3-1	124	37.8	27.0	32.9	22.4**	17
North Umpqua	22F16	4215	3-5	80	21.0	13.4	17.9	- -	4
Trap Creek	22F17	3800	3-6	84	22.5	15.1	- -	- -	1
Goolaway Mountain	23G2	3780	Not measured			5.3	- -	3.5**	9
Goolaway Gap	23G1	3050	2-28	55	14.0	3.6	- -	1.1**	9
ROGUE RIVER									
Wagner Butte	22G18	6900	2-29	81	23.9	9.8	19.1	14.8	18
Seven Lakes No. 1	22G10	6800	2-29	171	65.2	35.6	59.9[b]	45.1**	8
Big Red Mountain	22G21	6500	Report delayed			20.6	38.9	- -	7
Little Red Mountain	22G22	6500	Report delayed			16.5	29.7	- -	7
*Park Headquarters	22G5	6450	3-4	199	71.4	32.3	55.2	54.4**	12
Scragg Mountain	22H1	6200	No report			16.3	38.7	25.4**	12
Seven Lakes No. 2	22G11	6200	2-29	141	49.2	26.3	38.5	36.3**	8

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[a]Telegraphic.
[b]Partly estimated.

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
ROGUE RIVER (Cont'd.)									
*Annie Spring	22G6	6018	3-4	173	59.8	26.2	43.5	39.8	22
*Fourmile Lake	22G12	6000	3-1	112	40.4	21.2	23.8	- -	3
Grayback Peak	23G3	6000	3-2	146[b]	65.7[b]	19.3	36.0	19.7**	14
Billie Creek Divide	22G13	5300	3-1	104	37.0	20.1	22.8	20.6**	22
Whaleback	22G1	5140	3-3	149	50.8	23.1	38.1	36.9**	8
Hobart Lake	22G17	5010	2-27	46	12.5	3.5	11.9	6.5**	8
*Hyatt Prairie Res.	22G16	4900	2-28	62	17.4	5.1	12.8	9.4	21
Fish Lake	22G14	4865	3-2	63	22.6	10.3	10.6	10.1**	19
Siskiyou Summit	22G20	4630	3-3	43	14.2	3.1[b]	- -	6.6	18
Althouse	23G4	4400	3-1	56	15.6	4.5	7.1	5.0**	16
Page Mountain	23G5	4045	3-1	72	18.0	5.6	- -	- -	1
Oregon Caves	23G6	4000	Report delayed			0.4	- -	- -	1
Goolaway Mountain	23G2	3780	Not measured			5.3	- -	3.5**	9
Silver Burn	22G2	3720	3-2	62	21.0	12.2	16.9	11.4	18
South Fork Canal	22G9	3500	3-2	18	5.5	2.7	2.9	3.7	19
Goolaway Gap	23G1	3050	2-28	55	14.0	3.6	- -	1.1**	9
KLAMATH LAKE BASIN									
Summer Rim	20G2	7200	2-25	58	11.0	8.6	24.3	14.1**	16
Seven Lakes No. 1	22G10	6800	2-29	171	65.2	35.6	59.9[b]	45.1**	8
Park Headquarters	22G5	6450	3-4	199	71.4	32.3	55.2	54.4**	12
Seven Lakes No. 2	22G11	6200	2-29	141	49.2	26.3	38.5	36.3**	8
Annie Spring	22G6	6018	3-4	173	59.8	26.2	43.5	39.8	22
Fourmile Lake	22G12	6000	3-1	112	40.4	21.2	23.8	- -	3
Strawberry	20G9	5600	Report delayed			5.3	7.8	9.2**	15
*Quartz Mt. (COPCO)	9	5504	3-2	50	15.0	6.0	7.5	6.7**	24
Sun Mountain	21G2	5350	2-28	115	38.8	13.6	26.7	24.8	18
*Quartz Mt.	20G6	5320	3-1	38	11.2	6.1	7.7	6.2**	17
Billie Creek Divide	22G13	5300	3-1	104	37.0	20.1	22.8	20.6	22
Crowder Flat	20H2	5200	Not measured			- -	- -	3.1**	12
Lake of the Woods	22G15	4960	2-29	70	21.5	11.8	14.4	9.1	19
Hyatt Prairie Res.	22G16	4900	2-28	62	17.4	5.1	12.8	9.4	21
Gerber	21G4	4850	2-29	18	5.9	3.6	0.0	- -	5
Bly 101 Ranch(COPCO)	10	4800	2-29	16	2.8	2.1	0.0	1.1	29
Chemult	21F11	4760	2-29	68	19.1	6.7	14.1	11.3	19
Yamsey (COPCO)	12	4600	Report delayed			0.0	- -	2.5	26
Kirk (COPCO)	6	4533	2-29	43	12.1	6.5	8.8	5.9	28
Beatty (COPCO)	1	4300	2-29	4	0.8	0.1	0.0	0.1	29
Crystal (COPCO)	4	4200	Report delayed			11.2	8.0	8.7	26
Harriman Lodge (COPCO)	8	4200	2-29	18	9.2	4.8	- -	4.0	28
Chiloquin (COPCO)	3	4187	2-29	6	1.6	T	T	1.7	26
Fort Klamath (COPCO)	5	4150	2-29	12	5.1	4.6	3.4	3.7	29
Taylor Butte	21G3	5100	Not measured			3.4	9.8	- -	3

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[a]Telegraphic.
[b]Partly estimated.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content(In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
INTERIOR DRAINAGE									
GOOSE LAKE BASIN									
Camas Creek	20G8	5720	2-28	65	19.0	9.4	10.0	10.6**	12
Strawberry	20G9	5600	Report delayed			5.3	7.8	9.2**	15
Quartz Mt.(COPCO)	9	5504	3-2	50	15.0	6.0	7.5	6.7**	24
Quartz Mountain	20G6	5320	3-1	38	11.2	6.1	7.7	6.2**	17
WARNER LAKE BASIN									
*Camas Creek	20G8	5720	2-28	65	19.0	9.4	10.0	10.6**	12
GUANO LAKE BASIN									
Bald Mountain	19H1	6720	Report delayed			3.9	0.6	4.1**	15
CHEWAUCAN RIVER									
*Summer Rim	20G2	7200	2-25	58	11.0	8.6	24.3	14.1**	16
Mill Creek	20G4	6200	2-26	68	15.5	5.1	12.2	7.4**	16
*Quartz Mountain	20G6	5320	3-1	38	11.2	6.1	7.7	6.2**	17
SILVER LAKE BASIN									
Silver Creek	21F12	4900	2-27	34	8.7	3.3	6.6	3.6**	15
HARNEY BASIN									
Snow Mountain	19F1	6300	Not measured			- -	- -	10.8**	5
Izee Summit	19E9	5293	2-29	39	10.8	7.1	6.3	8.2	20
Idlewild Camp	18F3	5200	2-28	33	8.4	4.2	3.5	6.0	21
Starr Ridge	19E7	5156	2-29	37	10.3	4.9	4.8	5.8	20
Lake Creek	18E18	5120	2-29	48	14.3	9.4	9.3	10.7**	17
Rock Spring	18F1	5100	2-28	31	7.9	5.3	3.8	6.3	20
Stinking Water	18F4	4800	2-28	21	7.3	3.8	0.0	4.7**	16
ALVORD LAKE BASIN									
*Disaster Peak	18H 1	6500	2-28	63	22.6	5.7	7.3	- -	7
McDERMITT CREEK									
Disaster Peak	18H1	6500	2-28	63	22.6	5.7	7.3	- -	7

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[a]Telegraphic.

OREGON SNOW SURVEYS - DELAYED DATA

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
FEBRUARY 15, 1956									
DESCHUTES RIVER									
Cascade Summit	22F3	4880	2-15	91	32.7	17.8	31.6	--	6
Hogg Pass	21E6	4755	2-15	119	41.5	25.2	41.7	--	6
WILLAMETTE VALLEY STREAMS									
SANTIAM RIVERS									
Hogg Pass	21E6	4755	2-15	119	41.5	25.2	41.7	--	6
Santiam Junction	21E5	3990	2-15	70	22.5	17.3	24.8	--	6
Marion Forks	21E4	2730	2-15	43	12.8	10.0	15.5	--	6
Whitewater Bridge	21E3	2175	2-15	18	4.3	4.2	6.3	--	5
Detroit (new town)	22E1	1500/	2-15	4	1.0	0.0	2.3	--	6
Detroit Dam	22E2	1580	2-15	T	T	0.0	0.0	--	5
Mill City	22E3	826	2-15	T	T	0.0	0.0	--	4
Snow Line: Approximately 450'									
McKENZIE RIVER									
Hogg Pass	21E6	4755	2-15	119	41.5	25.2	41.7	--	6
Santiam Junction	21E5	3990	2-15	70	22.5	17.3	24.8	--	6
MIDDLE FORK WILLAMETTE RIVER									
Cascade Summit	22F3	4880	2-15	91	32.7	17.8	31.6	--	6
Champion	22F9	4500	2-14	61	22.4	21.5	26.5	--	7
Salt Creek Falls	22F4	4000	2-15	48	16.0	11.6	15.8	--	7
Railroad Overpass	22F5	2750	2-15	9	1.2	4.8	4.8	--	7
McCredie Springs	22F6	2120	2-15	4	0.2	0.0	0.0	--	7
Oakridge	22F7	1310	2-15	T	T	0.0	0.0	--	6
Meridian Dam	22F8	750	2-15	T	T	0.0	0.0	--	6
Snow Line: Approximately 1500'									
COAST FORK WILLAMETTE RIVER									
Champion	22F9	4500	2-14	61	22.4	21.5	26.5	--	7
Golden Curry	22F10	3500	2-14	14	2.6	6.0	6.0	--	6
Weaver Creek	22F11	2440	2-14	5	0.2	1.3	0.0	--	5
Lund Park	22F12	1740	2-14	2	T	0.0	0.0	--	6
Layng Creek R.S.	22F13	1200	2-14	T	T	0.0	0.0	--	6
Snow Line: Approximately 1200'									
MARY'S RIVER									
Mary's Peak	23E1	3620	2-12	34	10.7	--	--	--	1

** Average is for less than 15 years of record in the 1938-52 period but not less than 5 years.

OREGON SNOW SURVEYS - DELAYED DATA (Cont'd.)

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
FEBRUARY 15, 1956 (CONT'D)									
UMPQUA RIVER									
Diamond Lake	22F18	5315	2-15	59	21.4	--	--	22.8	15
Champion	22F9	4500	2-14	61	22.4	21.5	26.5	--	7
ROGUE RIVER									
Siskiyou Summit	22G20	4630	2-12	12	5.4	4.9	14.7	--	6
KLAMATH RIVER									
Lake of the Woods	22G15	4960	2-15	40	13.5	9.4	14.0	--	5

** Average is for less than 15 years of record in the 1938-52 period but not less than 5 years.

CURRENT OREGON STREAMFLOW[a]

BASIN, RIVER and STATION	Streamflow in Thousands of acre-feet Oct. 1955 - Feb. 1956 Total	As percent of 1938-52 Average	Feb. 1956 Total	As percent of 1938-52 Average
UPPER COLUMBIA DRAINAGE (Lower Snake in Oregon)				
Owyhee Res. net inflow	292.1	303	49.6	394
LOWER COLUMBIA DRAINAGE				
Umatilla R. nr. Umatilla	243.2	161	43.7	80
John Day R. at Service Cr.	673.0	191	106.4	81
Deschutes R. at Moody	2296.0	135	403.0	99
Hood R. and conduit nr. Hood R.	608.0	160	63.3	69
Willamette R. at Salem	18193.0	175	2014.0	75
Willamette R. at Albany	10991.0	175	1369.0	84
M.F. Willamette R. below North Fk.	1772.0	173	180.0	71
OREGON AND CALIFORNIA COAST DRAINAGE				
Umpqua R. nr. Elkton	6771.0	200	934.0	96
Rogue R. at Raygold	1905.0	184	339.0	118
Upper Klamath Lake net inflow	1015.0	193	184.0	172

[a]Preliminary data supplied by: U. S. Geological Survey, Current Records Center, Portland, Oregon; The California Oregon Power Co., Medford, Oregon; and North and South Boards of Control, Owyhee Project, Nyssa, Oregon.

OREGON PRECIPITATION[a]

DRAINAGE DIVISION	FALL Sept.-Oct.-Nov.1955 Observed	Departure[b]	Dec.-Jan.-Feb. 1955-'56 Observed	Departure[b]
Southeastern	2.27	-0.57	5.78	∕ 1.80
Blue Mountains	6.00	∕0.63	10.51	∕ 3.24
Wallowa Mountains	7.24	∕1.32	9.41	∕ 2.82
Lower Columbia	7.38	∕2.15	10.98	∕ 3.66
Upper Deschutes	3.74	-0.17	10.69	∕ 5.14
Willamette Valley	21.88	∕5.43	36.40	∕13.82
Southwestern	8.33	∕0.98	23.45	∕11.49
South Central	3.90	∕0.26	10.93	∕ 5.59

Southeastern - Owyhee and lower Malheur drainages.

Blue Mountains - Upper valleys of the Umatilla, John Day and Malheur, and the Powder, Burnt and Silvies drainages.

Wallowa Mountains - Imnaha, Wallowa and Catherine drainages.

Lower Columbia - Lower valleys of the Walla Walla, Umatilla, John Day and Deschutes, and the Hood and Sandy drainages.

Upper Deschutes - Upper Deschutes and Crooked drainages.

Willamette Valley - All Willamette drainages.

Southwestern - Umpqua, Rogue and Williamson drainages.

South-Central - Sprague, Lost and Interior Basin drainages.

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a - Preliminary analysis by U. S. Weather Bureau.

b - Departure from 15-year (1938-52) drainage division average.

Note - Precipitation shown in inches.

The following organizations cooperate in the Oregon snow survey work:

STATE

- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon Agricultural Experiment Station
- Oregon State Engineer and corps of State Watermasters
- Oregon State Highway Engineers
- Soil Conservation Districts of Oregon

FEDERAL

- Department of Agriculture
  - Cooperative Extension Service
  - Forest Service
  - Soil Conservation Service
- Department of Commerce
  - Weather Bureau
- Department of the Interior
  - Bonneville Power Administration
  - Bureau of Reclamation
  - Fish and Wildlife Service
  - Geological Survey
  - Indian Service
  - National Park Service
- Department of National Defense
  - Army Engineer Corps

PUBLIC UTILITIES

- California-Pacific Utilities Company
- Pacific Power and Light Company
- Portland General Electric Company
- The California Oregon Power Company

MUNICIPALITIES

- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

IRRIGATION DISTRICTS

- Associated Ditch Companies
- Central Oregon Irrigation District
- Deschutes County Municipal Improvement District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Jordan Valley Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Irrigation District
- South Board of Control - Owyhee Project
- Talent Irrigation District
- Vale-Oregon Irrigation District
- Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

- Amalgamated Sugar Company
- The Crag Rats, Hood River, Oregon

Federal - State - Private

COOPERATIVE SNOW SURVEYS

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Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"